



LNER 'Tornado' on ESU

F key	Function	Volume CV
		CV31=16, CV32=1
F0	Lights on if fitted (direction dependent)	
F1	Sound on: chuffs1 & chuffs2 (2-channel) // hiss and blower	259 & 267 // 491
F2	Whistle long ***	283
F3	Whistle short	275
F4	In normal mode: Brake1 (CV 179) and brake valve sounds In shunting mode (F17): Brake2 (CV 180) and brake valve sound ***	291
F5	Open draincocks	299
F6	Whistle echo	307
F7	Guard // Flange squeal (stationary / moving)	315 // 355
F8	'Teapot' whistle	323
F9	Forced coasting sound	
F10	Coal shovelling & firebox flicker Aux1	331
F11	Injector	339
F12	Coach doors (only when stationary)	347
F13	Coupler sound	499
F14	Air pump	363
F15	Safety valve	371
F16	Water fill (only when stationary)	379
F17	Shunting / light engine mode, engages: lower speed (CV 101), faster acc/dec (CV 103), small additional brake3 force (CV 181), Automatic coasting (delay = CV 163, max speed = CV 164)	
F18	Vacuum destroy sound	483
F19	Volume control (short press alters CV 63 by 32)	
F20	Aux 2 (Seuthe smoker) **	
F21	Momentum off	
F22	No brake squeal	
F23	Sound fader (min vol = CV 133, fade time = CV 135)	
F24	Forced heavy chuffs and slower acc/dec (CV 104)	
F25	Aux 5	
F26	Reserved	
F27	Light dimming if fitted	
F28	Reserved	
Brake	Brake squeal sound	CV32=2 259
Brake	Brake-on speed: CV 64	
	Brake-off speed: CV 65	

*** Swap F2 & F4: set (in exactly this order):
CV31 = 16, CV32 = 3, CV386 = 16, CV418 = 1, CV434 = 1
Swap back:
CV31 = 16, CV32 = 3, CV386 = 1, CV418 = 16, CV434 = 16